

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A semiconductor device comprising:
a transistor;
a current ~~supply means~~ source electrically connected to the transistor; and
a precharge circuit comprising a first terminal electrically connected to the transistor and a second terminal,
wherein the precharge circuit supplies a charge to the transistor according to a comparison between a potential of the first terminal and a potential of the second terminal, and wherein the current source is configured to supply a current corresponding to a gray scale level.
2. (Currently amended) A semiconductor device according to Claim 1, wherein the precharge circuit comprises:
a comparison control circuit for the comparison between the potential of the first [[wiring]] terminal and the potential of the second [[wiring]] terminal; and
a switch controlled by the comparison control circuit.
3. (Original) A semiconductor device according to Claim 2, wherein the comparison control circuit comprises an operational amplifier.
4. (Previously Presented) A semiconductor device according to Claim 2, wherein the comparison control circuit comprises a chopper inverter comparator.
5. (Original) An electronic apparatus having the semiconductor device according to

Claim 1, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.

6. (Currently amended) A semiconductor device comprising:
a transistor;
a current source electrically connected to the transistor;
a charge supply means; and
a precharge circuit configured to supply a charge to the transistor, the precharge circuit comprising:
a comparison control circuit having a first input terminal electrically connected to the transistor, a second input terminal and ~~[[third]]~~ an output terminal; and
a switch electrically connected to the ~~[[third]]~~ output terminal,
wherein the charge supply means is electrically connected to the transistor through the switch, and
wherein the current source is configured to supply a current corresponding to a gray scale level.

7. (Currently amended) A semiconductor device according to Claim 6, wherein the charge supply means is a second current source.

8. (Original) A semiconductor device according to Claim 6, wherein the charge supply means is a power source.

9. (Original) The semiconductor device according to Claim 6, wherein the comparison control circuit comprises an operational amplifier.

10. (Previously Presented) The semiconductor device according to Claim 6, wherein the comparison control circuit comprises a chopper inverter comparator.

11. (Original) An electronic apparatus having the semiconductor device according to Claim 6, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.

12. (Currently amended) A semiconductor device comprising:
a transistor comprising a source electrode, a drain electrode and a gate electrode;
a current source electrically connected to the transistor;
a charge supply means; and
a precharge circuit configured to supply a charge to the transistor, the precharge circuit comprising:
a comparison control circuit having a first input terminal electrically connected to the transistor, a second input terminal and ~~[[third]]~~ an output terminal; and
a switch electrically connected to the ~~[[third]]~~ output terminal,
wherein the gate electrode is electrically connected to any one of the source electrode and the drain electrode, ~~[[and]]~~
wherein the charge supply means is electrically connected to any one of the source electrode and the drain electrode through the switch, and
wherein the current source is configured to supply a current corresponding to a gray scale level.

13. (Currently amended) A semiconductor device according to Claim 12, wherein the charge supply means is a second current source.

14. (Original) A semiconductor device according to Claim 12, wherein the charge supply means is a power source.

15. (Original) The semiconductor device according to Claim 12, wherein the comparison control circuit comprises an operational amplifier.

16. (Previously Presented) The semiconductor device according to Claim 12, wherein the comparison control circuit comprises a chopper inverter comparator.

17. (Original) An electronic apparatus having the semiconductor device according to Claim 12, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.

18. (Currently amended) A display device comprising:
[[a pixel]] a light emitting element;
a transistor electrically connected to the light emitting element;
a current ~~supply means~~ source electrically connected to the transistor; and
a precharge circuit comprising a first terminal electrically connected to the transistor and a second terminal,
wherein the precharge circuit supplies a charge to the transistor according to a comparison between a potential of the first terminal and a potential of the second terminal,
[[and]]
wherein the current source is configured to supply a first current corresponding to a gray scale level, and
wherein the transistor supplies a second current corresponding to the first current to the
[[pixel]] light emitting element.

19. (Canceled)

20. (Currently amended) A display device according to Claim 18, wherein the precharge circuit comprises:
a comparison control circuit for the comparison between the potential of the first
[[wiring]] terminal and the potential of the second [[wiring]] terminal; and
a switch controlled by the comparison control circuit.

21. (Original) A display device according to Claim 20, wherein the comparison control circuit comprises an operational amplifier.

22. (Previously Presented) A display device according to Claim 20, wherein the comparison control circuit comprises a chopper inverter comparator.

23. (Original) An electronic apparatus having the display device according to Claim 18, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.

24. (Currently amended) A display device comprising:
[[a pixel]] a light emitting element;
a transistor electrically connected to the [[pixel]] light emitting element;
a current source electrically connected to the transistor;
a charge supply means; and
a precharge circuit configured to supply a charge to the transistor, the precharge circuit comprising:
a comparison control circuit having a first input terminal electrically connected to the transistor, a second input terminal and [[third]] an output terminal; and
a switch electrically connected to the [[third]] output terminal,
wherein the charge supply means is electrically connected to the transistor through the switch, and
wherein the current source is configured to supply a current corresponding to a gray scale level.

25. (Canceled)

26. (Currently amended) A display device according to Claim 24, wherein the charge supply means is a second current source.

27. (Original) A display device according to Claim 24, wherein the charge supply means is a power source.

28. (Original) The display device according to Claim 24, wherein the comparison control circuit comprises an operational amplifier.

29. (Previously Presented) The display device according to Claim 24, wherein the comparison control circuit comprises a chopper inverter comparator.

30. (Original) An electronic apparatus having the display device according to Claim 24, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.

31. (Currently amended) A display device comprising:
[[a pixel]] a light emitting element;
a transistor comprising a source electrode, a drain electrode and a gate electrode;
a current source electrically connected to the transistor;
a charge supply means; and
a precharge circuit configured to supply a charge to the transistor, the precharge circuit comprising:
a comparison control circuit having a first input terminal electrically connected to the transistor, a second input terminal and [[third]] an output terminal; and
a switch electrically connected to the [[third]] output terminal,
wherein the gate electrode is electrically connected to any one of the source electrode and the drain electrode,
wherein the charge supply means is electrically connected to any one of the source electrode and the drain electrode through the switch, [[and]]
wherein the [[pixel]] light emitting element is electrically connected to any one of the source electrode and the drain electrode, and

wherein the current source is configured to supply a current corresponding to a gray scale level.

32. (Currently amended) A display device according to Claim 31, wherein the charge supply means is a second current source.

33. (Original) A display device according to Claim 31, wherein the charge supply means is a power source.

34. (Original) The display device according to Claim 31, wherein the comparison control circuit comprises an operational amplifier.

35. (Previously Presented) The display device according to Claim 31, wherein the comparison control circuit comprises a chopper inverter comparator.

36. (Original) An electronic apparatus having the display device according to Claim 31, wherein the electronic apparatus is selected from the group consisting of a light emitting device, a digital still camera, laptop personal computer, a mobile computer, a portable image reproducing device, a goggle type display, a video camera and a portable phone.